

DECLARATION FOR PATENT APPLICATION

(00S001)

As a below named inventor, I declare that my residence, post office address and citizenship are as stated below above my name; I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

CHEMICAL REACTION PROCESSING APPARATUS

the specification of which (check applicable box(es)).

☒ [X] is attached hereto.

☐ [] was filed on

as United States Application or PCT International Application

No.:

☐ [] and was amended on

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(b) or 365(d) of any foreign application(s) for patent or inventor's certificate, or 35 U.S.C. 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Japanese Patent Application No. 2000-030320 filed February 8, 2000, Priority Claimed

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) or 35 U.S.C. 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of this application.

I hereby appoint as my attorney, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Ken I. Yoshida (Reg.No.37,009) and John L. Knoble (Reg.No.32,387), each of whose address is Eight Penn Center, Suite 1350, 1628 John F. Kennedy Blvd., Philadelphia, PA 19103, or any one of them, and request that correspondence be directed to KNOBLE & YOSHIDA LLC, Eight Penn Center, Suite 1350, 1628 John F. Kennedy Blvd., Philadelphia, PA 19103 and that telephone calls be directed to Ken I. Yoshida at telephone No.(215)599-0600.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

[1st Inventor]

Post Office Address: 3-33-734 Takezono, Tsukuba-shi, Ibaraki-ken, Japan

Residence Address: 3-33-734 Takezono, Tsukuba-shi, Ibaraki-ken, Japan

Country of Citizenship: Japan

Date:

Feb 28, 2000

Mamoru Watanabe

Mamoru Watanabe

[2nd Inventor]

Post Office Address: Park Side Village Suite 507, 3-8-15 Touwa, Adachi-ku, Tokyo, Japan

Residence Address: Park Side Village Suite 507, 3-8-15 Touwa, Adachi-ku, Tokyo, Japan

Country of Citizenship: Japan

Date: Feb. 28, 2000

Ikuo Yanase
Ikuo Yanase

[3rd Inventor]

Post Office Address: 3-201-304 Takezono, Tsukuba-shi, Ibaraki-ken, Japan

Residence Address: 3-201-304 Takezono, Tsukuba-shi, Ibaraki-ken, Japan

Country of Citizenship: Japan

Date: Feb. 18, 2000

Takayoshi Sasaki
Takayoshi Sasaki

[4th Inventor]

Post Office Address: Nisseisangyo-syataku 2nd Bldg. Suite 104, 190 Korokudai, Matsudo-shi, Chiba-ken, Japan

Residence Address: Nisseisangyo-syataku 2nd Bldg. Suite 104, 190 Korokudai, Matsudo-shi, Chiba-ken, Japan

Country of Citizenship: Japan

Date: Feb. 28, 2000

Takugo Ootaki
Takugo Ootaki

Please type a plus sign (+) inside this box ☐

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	09/521,765
Filing Date	3/09/2000
First Named Inventor	Mamoru Watanabe
Group Art Unit	3722
Examiner Name	Bex, Patricia K.
Attorney Docket Number	00S001

I hereby appoint:

☒ Practitioners at Customer Number

35910

OR

☐ Practitioner(s) named below:



Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioner(s) at Customer Number.

OR

Place Customer
Number Bar Code
Label here

☒ Firm or
Individual Name

Omori & Yaguchi USA, LLC

Address Eight Penn Center, Suite 1360

Address 1628 John F. Kennedy Boulevard

City Philadelphia State PA Zip 19103

Country U.S.A.

Telephone 215 701-6349 Fax 215 701-6351

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name Hitachi High-Technologies Corporation (Former name: Nisseisangyo Kabushikigaisya)

Signature Tetsushi Mori

Date 30/9/2003

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 3 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents,

Please type a plus sign (+) inside this box ☐

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REVOCATION OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	09/521,765
Filing Date	3/09/2000
First Named Inventor	Mamoru Watanabe
Group Art Unit	3722
Examiner Name	Bex, Patricia K.
Attorney Docket Number	00S001

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☒ A Power of Attorney or Authorization of Agent is submitted herewith.

OR

☐ Please change the correspondence address for the above-identified application to:

☐ Customer Number

OR

Place Customer
Number Bar Code
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☐ Firm or
Individual Name

Address

Address

City

Country

State

ZIP

Telephone

Fax

I am the:

☐ Applicant/Inventor

☒ Assignee of record of the entire interest. See 37 CFR 3.71
Certificate under 37CFR 3.73(b) is enclosed (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Name

Hitachi High-Technologies Corporation (Former name: Nisseisangyo Kabushikigaisha)

Signature

Tetsuki Mori

Date

30/9/2003

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Mamoru Watanabe, Ikuo Yanase, Takayoshi Sasaki, and Takugo OotakiApplication No./Patent No.: 09/521.765 Filed/Issue Date: 3/09/2000Entitled: CHEMICAL REACTION PROCESSING APPARATUSHitachi High-Technologies Corporation, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or2. ☐ an assignee of less than the entire right, title and interest.The extent (by percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:

A. [] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. [✓] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

Mamoru Watanabe, Ikuo Yanase, Takayoshi Sasaki, and Takugo Ootaki Kagakugijutsu-cho Mukizaishitsu-Kenkyusho, and Nisseisangyo Kabushikigaisya

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel 010627, Frame 0208, or for which a copy thereof is attached.Kagakugijutsu-cho Mukizaishitsu-Kenkyusho, and National Institute for Materials Science, and
2. From: Nisseisangyo Kabushikigaisya To: Hitachi High-Technologies Corporation

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

[] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

30/9/2003

Date

(03) 3504-7216

Telephone number

Mori Tetsushi

Typed or printed name

Tetsushi Mori

Signature

Vice President, Marketing

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Please type a plus sign (+) inside this box → ☐

PTO/SB/81 (02-01)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number 09/521,765

Filing Date 3/09/2000

First Named Inventor Mamoru Watanabe

Group Art Unit 3722

Examiner Name Bex, Patricia K.

Attorney Docket Number 00S001

I hereby appoint:

☒ Practitioners at Customer Number

35910

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all

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☐ The above-mentioned Customer Number.

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☒ Firm or
Individual Name

Omori & Yaguchi USA, LLC

Address Eight Penn Center, Suite 1360

Address 1628 John F. Kennedy Boulevard

City Philadelphia State PA Zip 19103

Country U.S.A.

Telephone 215 701-6349 Fax 215 701-6351

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name National Institute for Materials Science (Former name: Kagakujiyutsu-cho Mukizaishitsu-Kenkyusho)

Signature *T. Kristin*

Date Oct 21, 2003

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ *Total of 3 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents,

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PTO/SB/82 (10/00)
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REVOCATION OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	09/521,765
Filing Date	3/09/2000
First Named Inventor	Mamoru Watanabe
Group Art Unit	3722
Examiner Name	Bex, Patricia K.
Attorney Docket Number	005001

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☒ A Power of Attorney or Authorization of Agent is submitted herewith.

OR

☐ Please change the correspondence address for the above-identified application to:

☐ Customer Number

OR

Place Customer
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Label here

<input type="checkbox"/> Firm or Individual Name					
Address					
Address					
City					
Country		State		ZIP	
Telephone		Fax			

I am the:

☐ Applicant/Inventor

☒ Assignee of record of the entire interest. See 37 CFR 3.71
Certificate under 37CFR 3.73(b) is enclosed (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Name	National Institute for Materials Science (Former name: Kagakugijutsu-cho Mukizaishitsu-Kenkyusho)
Signature	<i>T. Kishi</i>
Date	<i>Oct 21, 2003</i>

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Mamoru Watanabe, Ikuo Yanase, Takayoshi Sasaki, and Takugo OotakiApplication No./Patent No.: 09/521.765 Filed/Issue Date: 3/09/2000Entitled: CHEMICAL REACTION PROCESSING APPARATUSNational Institute for Materials Science, a national research laboratory

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: Mamoru Watanabe, Ikuo Yanase, Kagakugijutsu-cho Mukizaishitsu-Kenkyusho, and Takayoshi Sasaki, and Takugo Ootaki

1. From: _____ To: Nisseisangyo Kabushikigaisya

The document was recorded in the United States Patent and Trademark Office at Reel 010627, Frame 0208, or for which a copy thereof is attached.

Kagakugijutsu-cho Mukizaishitsu-Kenkyusho, and National Institute for Materials Science, and

2. From: Nisseisangyo Kabushikigaisya To: Hitachi High-Technologies Corporation

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

(NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08)

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Oct. 21, 2003

Date

Teruo Kishi

Typed or printed name

T. Kishi

Signature

Telephone number

President

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENTS ONLY

To The Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**Mamoru Watanabe, Ikuo Yanase,
Takayoshi Sasaki and Takugo Ootaki**

Additional name(s) of conveying party(ies)
attached? () YES (X) NO

3. Nature of Conveyance:

- (X) Assignment () Merger
() Security Agreement
() Change of Name
() Other:

Execution Date: February 28, 2000

2. Name and address of receiving party(ies):

1) Name: Kagakugijutsu-cho Mukizaishitsu-Kenkyusho

Address: 1-1 Namiki, Tsukuba-shi, Ibaraki-ken, Japan

2) Name: Nisseisangyo kabushikigaisya

Address: 1-24-14 Nishishinbashi, Minato-ku, Tokyo,
Japan

Additional name(s) & address attached? () YES (X) NO

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:
February 28, 2000

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? () YES (X) NO

5. Name and address of party to whom correspondence concerning documents should be mailed:

Name: Ken I. Yoshida, Esq.
Reg. No. 37,009

Address: KNOBLE & YOSHIDA LLC.
Eight Penn Center, Suite 1350
1628 John F. Kennedy Blvd.
Philadelphia, PA 19103

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$40.00

(X) Enclosed

() Authorized to be charged to Deposit Account
Number 50-0462

8. Please charge any deficiency or credit any
overpayment to Deposit Account Number 50-0462

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ken I Yoshida/37,009

Name of Person Signing/Reg. No.

 Signature

March 9, 2000
Date

Total number of pages including cover sheet, attachments, and document: _____

Mail documents to be recorded with required cover sheet information to:

**Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231**

ASSIGNMENT

(00S001)

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

CHEMICAL REACTION PROCESSING APPARATUS

Said application having been filed on February 8, 2000
and assigned Serial No. 2000/030320
sell and assign to

- (1) Kagakugijutsu-cho Mukizaishitsu-Kenkyusho, a national research laboratory, located at 1-1 Namiki, Tsukuba-shi, Ibaraki-ken, Japan
- (2) Nisseisangyo kabushikigaisya, a Japanese corporation, having a place of business at 1-24-14 Nishishinbashi, Minato-ku, Tokyo, Japan

Their successors, and assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) ☒ [X] executed concurrently herewith;
 ☐ [] executed on _____;
 ☐ [] Application No. _____, filed _____;

and in and to all applications for patent and patents for invention, in all countries of the world, including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document:

KNOBLE & YOSHIDA LLC, Eight Penn Center, Suite 1350, 1628 John F. Kennedy Blvd., Philadelphia PA 19103, U.S.A.

[1st Inventor]

Post Office Address: 3-33-734 Takezono, Tsukuba-shi, Ibaraki-ken, Japan
Residence Address: 3-33-734 Takezono, Tsukuba-shi, Ibaraki-ken, Japan
Country of Citizenship: Japan

Date: Feb. 28, 2002

Mamoru Watanabe

Mamoru Watanabe

[2nd Inventor]

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Residence Address: Park Side Village Suite 507, 3-8-15 Touwa, Adachi-ku, Tokyo, Japan

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Date: Feb. 28, 2000

Ikuo Yanase
Ikuo Yanase

[3rd Inventor]

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Residence Address: 3-201-304 Takezono, Tsukuba-shi, Ibaraki-ken, Japan

Country of Citizenship: Japan

Date: Feb. 28, 2000

Takayoshi Sasaki
Takayoshi Sasaki

[4th Inventor]

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Residence Address: Nisseisangyo-syataku 2nd Bldg. Suite 104, 190 Korokudai, Matsudo-shi, Chiba-ken, Japan

Country of Citizenship: Japan

Date: Feb. 28, 2000

Takugo Ootaki
Takugo Ootaki

After recording please return to:

KNOBLE & YOSHIDA LLC, Eight Penn Center, Suite 1350, 1628 John F. Kennedy Blvd., Philadelphia
PA 19103, U.S.A.